MileSeey S3 series handheld laser distance meter user guide

1. Overview

MileSeey S3 series product measures up to 100m, integrates tilt sensor and full color screen, is specially for professional users. Initial adoption of li-ion battery, which greatly enhances usage life and can last for several years. In addition, it is more green.

mOS V1.0, is an innovated and patent measuring system, which has vivid colorful screen, strong interactive interface, and has professional measuring functions. The various supplement functions and unique personal setting providing unexpected measuring experience and fun.

The perfect combination of ergonomic design and fashion provides amazing functions and experience. The product leads to a new era of professional measurement.

2. Start-up&Shut-down

1) Inserting/replacing batteries

Remove battery compartment lid by pressing it lightly, insert the provided Li-ion battery and close the cover.

Remove the batteries before any long period of non-use to avoid the danger of corrosion.

Your strongly recommended to user li-ion batteries which is produced by original laser meter producer.

2) Start-up

Press ⚠ key to start-up, and directly go to the interface of single measuring(see figure).

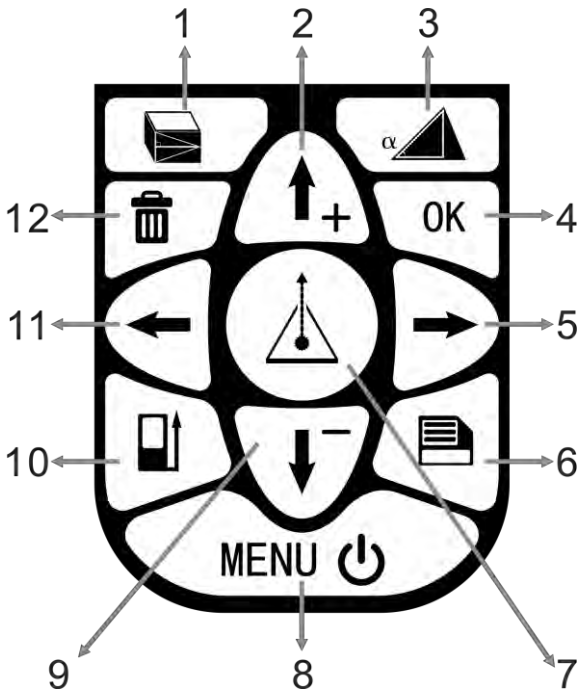
3) Manual Shut-down

Pressing this button MENU ⏻ for longer switches the instrument off.

4) Auto Shut-down

The instrument switches off automatically after three minutes of inactivity.

3. Button functions



1.Area/Volume/ Pythagoras

2.Plus/Go Up

3. Tilt/ triangle

4.Confirmation

5.Go Right

6.Saving/Historical data

7. Power On/Measuring (On/Single/continuous meas)

8.Menu/Power Off

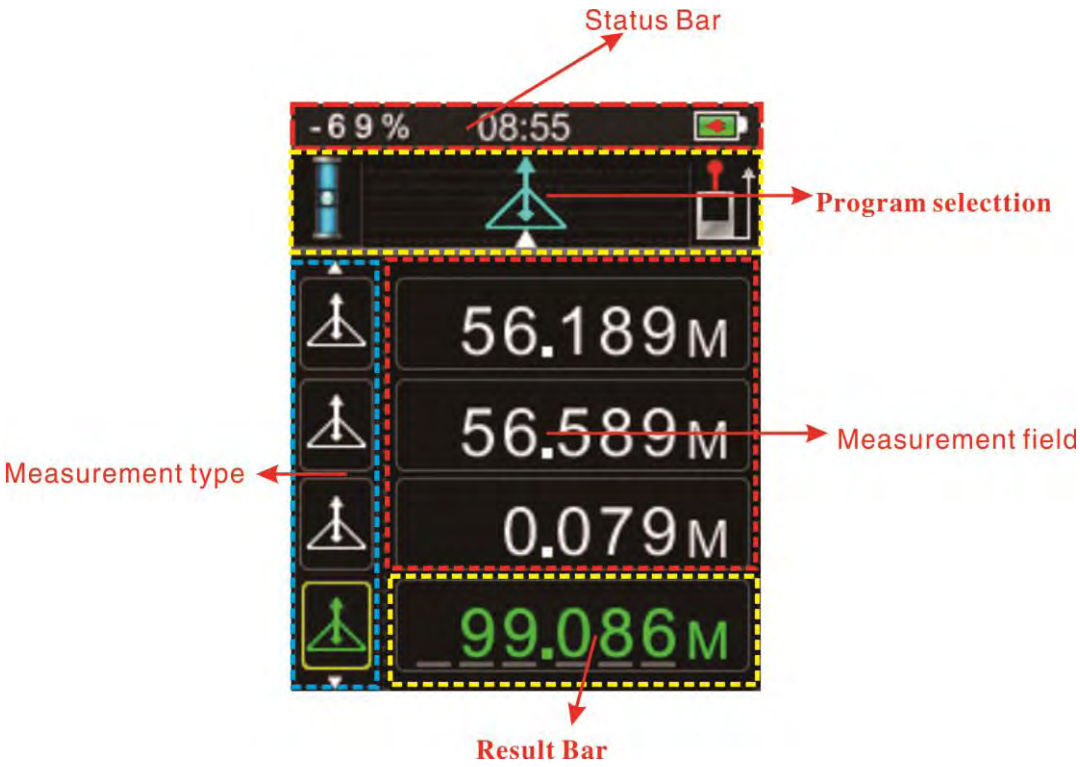
9.Minus/Go Down

10. Reference

11.Go Left

12. Clear/Cancel

4. Display screen general view



The graphics screen of the measurement window is split into different areas. Top second screen is the measurement functional field, which contains the currently selected measuring program. Just to the left/right appears the program submenu, which shows the measuring programs that can be selected by pressing the same key the required number of times. The measurement field contains the individual measurements of the measuring program with reference to a series of separate distance measurements. Three lines are provided for last measurement data. A horizontal line separates the measurement field and the result bar from one another.

1 Status bar with (time, battery status, bubble)

2 Program selection with measurement instructions

3. Status of measurement, (Reference, laser on)

3 Measurement field

4 Result bar

5 Measurement type

5. Measuring

In measuring mode, user can press to delete the current measured data and re-measure.

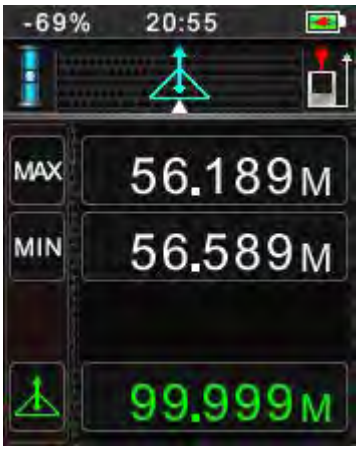
1) Single Measuring

Following 3 entries lead to single measurement function (see figure)

- Press key to start-up, and directly go to the interface of single measuring
- It will be back to this mode after completing measurement every time.
- User will be back to single measuring mode by press MENU one or more times in menu setting interface.

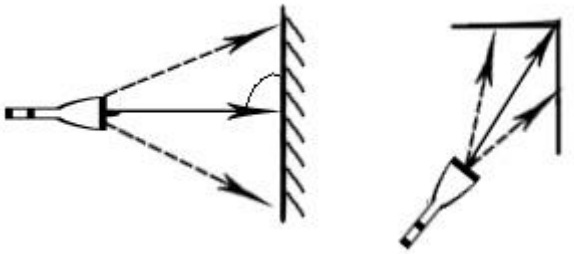
Press to activate the laser. Press again to trigger the distance measurement. The result is displayed immediately.

2) Continuous Measuring



Press and hold down the key until hear "beep" to activate continuous measurement. This function enable user to measure the minimum or maximum distance from a fixed

measuring point. User can press or to stop the function, and The values for maximum and minimum distances are shown in the display as well as the last measured value in the summary line.



3) Area Measuring

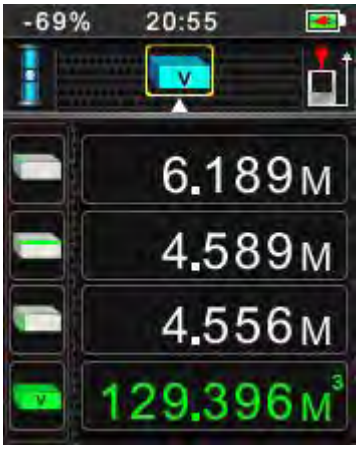
Press once, the symbol S appears in function filed of display.

Press to take the first distance measurement (e.g. Length).

Press again to take the second distance measurement (e.g. width).

The results of length, width, perimeter and area are displayed in the historical data line in order.

4) Volume Measuring

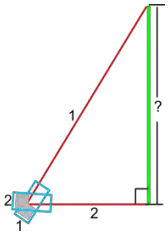


Press ▭ twice, the symbol appears in the function field on the display, and the volume function activated as well.

Press ⚠ to take the first length measurement (e.g. Length). Next get the width, then heights, the final result is displayed in the summary line.

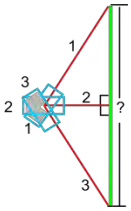
Press ▲+ and ▼− to display additional room information such as ceiling/floor, surface area of the walls, circumference.

5) Single Pythagoras



Press ▭ three times to activate the function,symbol appears in the function field on the display as following to take No. 1, and No. 2 length, the result is displayed on the summary line. Press 🗑 to delete any measured length and then press ⚠ to re-measure.

6) Double Pythagoras



Press ▭ four times to activate the function, the symbol display in function field as following to take No.1,2 and 3 length,

the height is displayed on the summary line. Press + to find additoinal information

6. Tilt measurement

1) Tilt measurement

Press button， the symbol appears in the function field, press to take the inclination and the distance.

The inclination sensor measures tilts between ± 45°.

During the measurement of tilt, the instrument should be held without transverse tilt, as far as possible within ± 10°. The accuracy is 0.3°.

2) Auto horizontal measurement

Press twice ， the symbol appears in the functional field. Press button to measure angel and distance, The summary line displays the result as the direct horizontal distance

3) Auto height measurement

Press third times ，the symbol appears in the functional field. Press button to take both sloping sides, the vertical height is displayed in the summary line.

4) Triangular measurement

Press four times ，the symbol appears in the functional area. Press button to take 3 sloping sides respectively, the area is displayed in the summary line. Press + to find out each angel of the Triangular and circumference.

7. Edit Measuring data Function

Note: this function is only enabled in measurement mode and at least a measured data display in the screen.

1) Select data

Press +or − to select measuring type in measuring process file (left handside of the screen) , press ➡ to locate the corresponding data, the data frame turning yellow indicates the data has been selected.

2) Re-measure:

When this data was selected, press to re-measure the distance till the result is satisfied. Press OK or return to measurement interface,

3) Adjust measurement result:

When this data was selected, press ➡ , the cursor appears in the measurement type field, press ⬅or ➡ move the cursor to select the digit of data, and press ⬆+or ⬇− to increase or reduce the value, press OK to save and return to measurment interface, or press 🗑 cancel the modification and return the previous data.

4) Addition / subtraction:

When this data was selected, press ⬆+ to appears in the measuremnt type field, press ⚠ the next measurement is added to the previous, In the same approach, Press ⬇− , the The next measurement is subtracted from the previous one. press OK to save and return to measurment interface, or press 🗑 cancel the modification and return the previous data.

8. Data locking:

1)Data locking introduction:

Usually the instrument keeps and deletes the measurement data in sequence of first in first out. The first in value will be deleted if total measurement data reach the maximum storage (eg.30 records). This function enable user to save data permanently except user deletes it manually from memory.

2) Lock data:in mode of measuring, when measuring, select data, press 📄 , the dialog box pop up user to select “save” button, then press “OK” to lock the data, return to measurement interface.

3) Lock/unlock data:in Historical record function: In history data interface, move cursor to navigate the data, then OK to lock it. And press OK again to unlock the data.

9. Historical record:

1) Historical record view:

Press 📄 to call up the function, press ⬆+ or ⬇− to select the measurment type, sorting by which, all of the data record displays in sequnce of created time.

2) View detail record

Press ➡ to read detail informaton of this record, including data type (locked/unlocked) ,no.of order all data, date, time, measurement function, measurement types , corresponding result, additional information,

For example, in function of volume measuemnt, additional infomration such as ceiling/floor area , surface area of the walls , circumference displays.

3) Historical record delete

➢ Batch records delete：

When cursor select one of measurement type， Press 🗑, then press OK to delete all the historical records belonging to this measurement type.

➢ Single record delete:

Press ⬆ or ⬇ to browse the record then Press 🗑, and press OK to delete the record.

Press ⬆ or ⬇ to browse the record then repeatedly press OK to loock and unlock the

record.

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10. System settings:

Press MENU ⏻ enter main screen, press ↑+or ↓− to move up and down find out setting type, press ➡ to be next sub-setting function.

Five kinds of funcitons proivded, **Tools**, **Personal Set ,Set**, **others** which will be addressed below,

10.1 Tools

1) Timer

In screen of Tools-> Timer,

The unit of delay time is second, press ⬅or ➡ move the cursor to select the digit of data, and press ↑+or ↓− to increase or reduce the value, press OK to save and return to upper interface, or press 🗑 cancel the modification and return to the previous data.

Press ⚠ to call up the function, the remaining seconds until measurement (e.g. 10, 9, 8...) are displayed in a countdown. The last 5 seconds are counted down with a beep. After the last beep the measurement is taken and the value is displayed.

2) Staking Out

In screen of Tools-> Staking out

press ⬅or ➡ move the cursor to select the digit of data, and press ⬆+or ⬇− to increase or reduce the value, press OK to save and return to upper interface, or press 🗑 cancel the modification and return to the previous data.

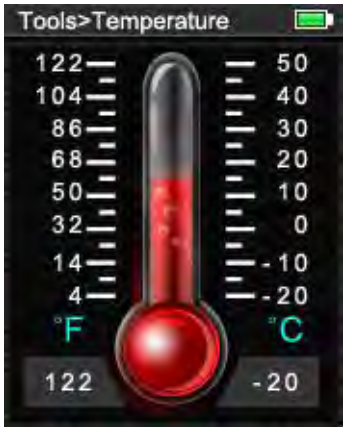
Pressing the button ⚠ starts the laser measurement. The display shows required stake out distance in the summary line between the stake out point and the instrument (rear reference). If the instrument moved slowly along the stake out line the displayed distance decreases. The instrument starts to beep at a distance of 0.1m from the next stake out point. The arrows in the display indicate in which direction the Meter needs to be moved in order to achieve the defined distance. As soon as the staking out point is reached, the symbol appears in the display.

3) Level

In screen of Tools-> Level,

3 mercury columns represents X, y and 45 axis, the value display when meter is rotated.

4) Thermometer



In screen of Tools-> thermometer

The thermometer records the current temperature of meter in the environment. Both Fahrenheit and degree Celsius are displayed in the screen.

5) Export

In screen of Tools-> Export

- Real time Export :in the Connection between meter and terminals through data cable, when user press ⚠ to take single measurement date, the data is automatically transmited to terminals without installing any additional software.
- Battch Export:

1. Establish Connection between meter and terminals through data cable
2. Open editors like EXCEL and move the cursor where you want to start
3. Press OK button to activate export function till finished

☞Only U series' have such function, A series' haven't such application.

☞ Using this function, not need to install specified software, Excel file is applicable.

10.2 Personal Set

1) Offset

In screen of Personal setting-> Offset,

press ← or → move the cursor to select the digit of data, and press ↑+ or ↓− to increase or reduce the value, press OK to save and return to previous interface, or press 🗑 cancel the modification and return to the previous data.

An offset adds or subtracts a specified value automatically to or from all measurements.

2) Brightness

In screen of Personal setting-> Brightness,

The brightness of screen could be adjusted in 5 levels by pressing ↑+ or ↓− to be lighter or darker.

3) Time Format

In screen of Personal setting-> time format

Three kinds of time format could be selected by pressing ↑+ or ↓−, .

press OK to save and return to upper interface, or press 🗑 cancel the modification and return to the previous data.

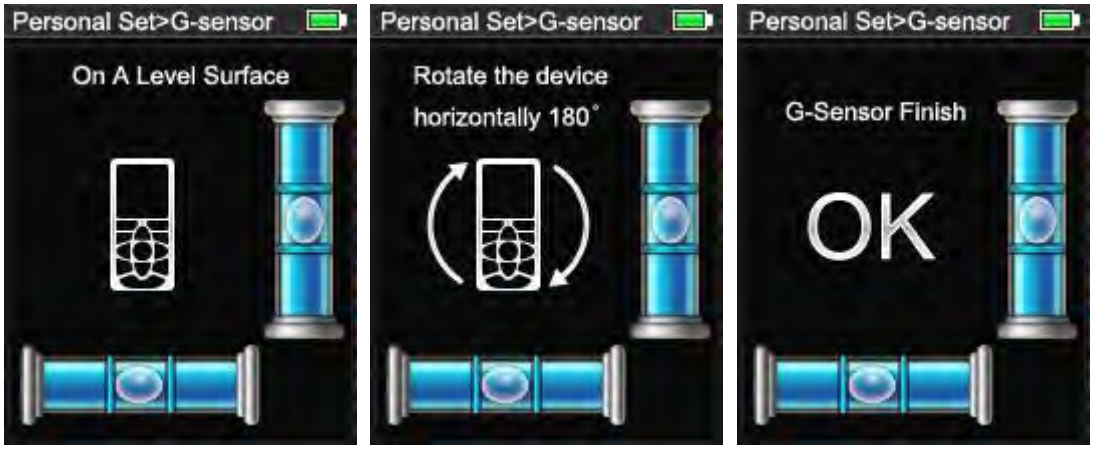
4) G-Sensor

In screen of Personal setting-> G-Sensor

You can calibrate the tilt sensor in the device. Calibration requires two measurements on a level surface.

Put on the device on the level surface, press OK

Rotate the device horizontally through 180°, press OK, The tilt sensor is calibrated.



5) Language

In screen of Personal setting-> Language

Press +or − to select the language, press OK to save and return to upper interface, or press cancel the modification and return to the previous language. English is default language.

10.3 Set

1) Measurement Unit

In screen of Setting-> Measurement unit

4 type of units can be selected as Meter, Feet, Inch, Feet&Inch.

Press +or− to select the unit; press OK to save and return to upper interface, or press cancel the modification and return to the previous data.

2) Angle Unit

In screen of Setting-> Angle Unit

Two kinds of angel unit available +/- 0.0° or 0.00%

Press +or− to select the unit; press OK to save and return to upper interface, or press cancel the modification and return to the previous data.

3) Beep

In screen of Setting-> Beep,

Press +or − to select ON or OFF the beep, press OK to save and return to upper interface, or press cancel the modification and return to the previous data.

4) Time Set

In screen of Setting-> Time set

press ←or → move the cursor to select the digit of data, and press +or − to increase or reduce the value, press OK to save and return to upper interface, or press cancel the modification and return the previous data.

5) Bubble

In screen of Setting-> Bubble

Press +or − to select ON or OFF the bubble which is display in the status filed in the screen, press OK to save and return to upper interface, or press cancel the

modification and return to the previous data.

10.4 Others

1) About us

In screen of Setting-> Others>About us

Software information display:

Version

Copyright,

Press OKor to go back to upper interface

2) Factory Reset

In screen of Setting-> Others> Factory Reset

Press OK , the device returns to the factory settings and stack and memory are deleted.

3) Reset

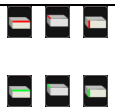
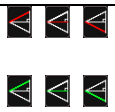
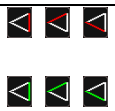
In screen of Setting-> Others> Reset

Press OK , the device returns to the factory settings but the records are still in the memory.

11. Error Code

Code	Cause	Corrective Measure
156	Transverse tilt greater than 10°	Hold the instrument without any transverse tilt
160	Main tilt direction, angle too high (> 45°)	Measure angle up to max. ± 45°
162	The calibration has not been accomplished on a leveled surface	Calibrate the device on an absolute Horizontal leveled surface.
204	Calculation error	Refer to user menu, repeat the procedures
208	Temperature too high	Cool down
220	Battery too low	Recharge battery
252	Temperature too High	Cool down instrument
253	Temperature too Low	Warm up instrument
255	Receiver signal too weak, measurement time too long	Use target plate or change a good refection
256	Received signal too strong	Target too reflective use target plate or do not aim at strong light objective
Error	Hardware error and uncertainty error	Switch on/off the device several times. If the symbol still appears, then your instrument is defective. Please call your dealer for assistance

12. Measurement steps

Function	Icon	Measurement steps	Additional Information
		Red side measuring Green side result 1 2 3	
Area			
Volume			
Pyth- agorean1			
Pyth- agorean2			
Inclination measurement			
Auto Horizontal			
Auto Heights			
Triangular			
Staking out			

13. Technical specifications

Functional Spec	S3A	S3U
Typical measuring accuracy	±1.5 mm	±1.5 mm
Measurement range	100m	100m
Measuring units	M/in/ft	M/in/ft
Laser Class	Class 2M	Class 2M
Display	2 Inch Full color screen	2 Inch Full color screen
Tilt measurements	YES	YES
Tilt sensor Accuracy	± 0.3°	± 0.3°
Battery	Li-ion battery/1200mAh	Li-ion battery/1200mAh
Battery life	15,000 times	15,000 times
Horizontal measurement	YES	YES
Angle measurement using tilt sensor(± 45°)	YES	YES
Staking out function	YES	YES
Recall last values	30	1000
Buzzer indication	YES	YES
Dust Protect/Splash proof	IP54	IP54
Operating Temperature	0°C to 40°C	0°C to 40°C
Storage Temperature	-10°C to 60°C	-10°C to 60°C
Data Interface USB	No	YES
Auto instrument switch-off	after 3 min	after 3 min
Dimension	115x48x35mm	115x48x35mm
Weight	105g	106g

14. Package

Porch

Li-ion battery

Power Charger,

Data Cable

15. Contact

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